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the future far greater and more general recognition in the universities, where it should receive at once magnificent support and endowment. Now is the time for us to seize upon this inheritance which Germany seems about to relinquish!

H. J. WHEELER

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SCIENTIFIC NOTES AND NEWS

THE two volumes containing "The Collected Papers of Joseph, Baron Lister," will shortly be issued from the Clarendon Press. They were planned as a memorial of Lord Lister's eightieth birthday, celebrated two years ago. The committee formed for the purpose has had the advantage of Lord Lister's advice, and the two volumes contain all the papers and addresses which he considers to possess permanent value.

PROFESSOR H. F. OSBORN, of Columbia University, has recently been elected one of the twenty-five foreign members of the Zoological Society of London, and also an honorary member of the Royal Academy of Sweden, as the successor of the late Professor Albert Gaudry.

PRINCE ALBERT OF MONACO has been elected a foreign member of the Paris Academy of Sciences in succession to Lord Kelvin.

EDINBURGH UNIVERSITY has conferred the honorary degree of LL.D. on Mr. J. G. Bartholomew, hon. secretary Royal Scottish Geographical Society; Professor A. Crum Brown, F.R.S.; Professor W. Burnside, F. R.S., Royal Naval College, Greenwich; Sir Alfred Keogh, K.C.B., director-general of the Army Medical Service, and Professor C. H. Kronecker, University of Berne.

SIR RICHARD D. POWELL has been reelected president of the Royal College of Physicians of London.

DR. CLEMENS VON PIRQUET, of Vienna, has been appointed physician-in-chief to the Harriet Lane Home for Invalid Children, affiliated with the Johns Hopkins Hospital and professor of pediatrics in the university.

DR. OLIVER L. FASSIG, of the U. S. Weather Bureau, Baltimore, and the Johns Hopkins University, has been placed in charge of the Porto Rican station with headquarters at San Juan.

PROFESSOR H. E. GREGORY, of the geological department of Yale University, will, on behalf of the U. S. government, undertake an expedition to the Arizona desert to seek a water supply for the Navajo Indians living on the Arizona reserve.

THE annual business meeting of the Phi Beta Kappa Alumni in New York will be held in the Hotel Savoy on the evening of May 4, when Dr. Simon Flexner, director of the Laboratories of the Rockefeller Institute for Medical Research, will address the association on the subject "The Service to Medical Science of Independent Institutions for Medical Research."

PROFESSOR JOSEPH BARRELL, of Yale University, gave a series of lectures in the department of geology at the University of Wisconsin from March 31 to April 6, dealing especially with sedimentation in some of its more modern aspects.

At the 353d regular meeting of the Middletown Scientific Association, held in the Scott Laboratory of Physics, Wesleyan University, on April 13, Dr. Arthur Eugene Watson, assistant professor of physics in Brown University, gave an illustrated lecture on "Some Mile-stone Marks in Electrical Engineering."

A MEETING of instructors and advanced students at Harvard University for the discussion of a recent chemical research will be held in Boylston Hall at 5 o'clock on the following Thursdays: April 29, May 6, 13, 20 and 27, and June 3. The next meeting will be open to all members of the university, and the special subject will be "The Rusting of Iron," by Dr. Allerton S. Cushman, of the U. S. Department of Agriculture.

UNDER the auspices of the department of physics of Columbia University a course of lectures on "The Present State of the System of Theoretical Physics," will be given by Max Planck, Ph.D., professor of mathematical

physics in the University of Berlin, lecturer in mathematical physics in Columbia University, 1908-1909. The lectures will be given in German on Friday afternoons at 4:10, and Saturday mornings at 10:10 from April 23 to May 15.

April 23 and 24—Introduction. "Reversibility and Irreversibility."

April 30 and May 1—"Kinetic Theory of Matter."

May 7 and 8—"Radiation of Heat."

May 14 and 15—"General Dynamics. The Relativity Principle."

FRANK LEO TUFTS, B.S. (Antioch, '91), A.B. (Harvard, '94), Ph.D. (Columbia, '96), adjunct professor of physics in Columbia University and the author of valuable contributions to experimental physics, was killed by an electric shock, on April 15. He was born in Findlay, Ohio, in 1871.

DR. W. H. EDWARDS, known for his work on the butterflies of North America, died at Coalburo, West Virginia, on April 4, at the age of eighty-eight.

THE death is also announced of the Rev. Dr. Sereno E. Bishop, who had spent more than fifty years as an American missionary in the Hawaiian Islands and had made contributions to our knowledge of their volcanoes.

There will be a New York State civil service examination on May 1 for the position of assistant bacteriologist in the State Department of Health at a salary of \$1,500.

A NORTH DAKOTA ACADEMY OF SCIENCE has been organized and will hold a spring meeting at Grand Forks on May 21. At this meeting Professor M. A. Brannon will outline the work that is before the academy in the biological sciences; Dr. Geo. Stewart that in the physical sciences, and Professor D. E. Willard that in geology. The first two named are in the State University at Grand Forks and the last is in the Agricultural College at Fargo. The president of the academy is Professor H. A. Brannon, of the State University, and the secretary is L. B. McMullen, of the State Normal School.

PLANS for the Pacific Coast meeting of the American Institute of Mining Engineers pro-

vide for a visit to Yellowstone Park, September 25 to 30; Spokane, October 2 to 6; Seattle, October 8 to 11; Tacoma, October 12, and Salt Lake City, October 15 to 19. The special train is to leave New York, September 22, and return just a month later.

THE semi-annual meeting of the American Institute of Chemical Engineers will be held on June 24 and 25 at the Polytechnic Institute, Brooklyn, N. Y. The program will consist of papers, excursions and an exhibit of chemical engineering apparatus.

A CONFERENCE on public health is being held this week at the University of Illinois under the auspices of the university and the Illinois State Board of Health. Professor W. T. Sedgwick, of the Massachusetts Institute of Technology, will deliver a series of lectures on the general subject, "Science in the Service of Public Health." Dr. T. J. Bryan, chemist of the Illinois State Food Commission, will speak on "The Relation of Pure Food to Public Health." A special session of health officers will be held on April 23, for general discussion of problems of health in the state. Dr. Egan, secretary of the State Board of Health, will open this session.

DR. F. CREIGHTON WELLMAN, who has had long experience as health officer in Portuguese East Africa, gave a series of extensive lectures under the auspices of the medical department of Tulane University on the following dates and subjects:

April 12—"Insects and Human Diseases."

April 13—"Diseases of West Africa."

April 14—"A Naturalist in West Africa."

April 15—"Why the Physician in Temperate Climates should study Tropical Diseases."

April 16—"General Biological Conditions in West Africa."

April 17—"Anthropological Notes made in West Africa."

A COURSE of eight free popular lectures was given at the Chicago Academy of Sciences on Friday evenings during February, March and April, as follows:

February 19—"The Volcano of Kilauea," by Mr. William A. Bryan, president, The Pacific Scientific Institution.

February 26—"The Deserts of Arizona," by

Dr. Henry C. Cowles, assistant professor of ecology, University of Chicago.

March 5—"Studies in Geology: The Grand Canyon of the Colorado River," by Dr. Wallace W. Atwood, secretary of the academy.

March 12—"Studies in Geology: The High Mountains of North America," by Dr. Wallace W. Atwood, secretary of the academy.

March 19—To be announced.

March 26—"The Conservation of our Natural Resources," by Mrs. Jane Perry Cook, head of department of geography, Chicago Normal School.

April 2—"Studies in Geology: The Geological History of the Chicago Region," by Dr. Wallace W. Atwood, secretary of the academy.

April 9—"Travel and Exploration in Alaska," by Dr. Wallace W. Atwood, secretary of the academy.

THE Geographic Society of Chicago has arranged for the month of May two excursions, the regular excursion on the second Saturday of the month and a special one later in the month. The regular excursion will take place on Saturday, May 15, under the leadership of Dr. Otis W. Caldwell, of the University of Chicago. The region visited will include the rich woods and the remarkable moving dunes near Furnessville, Indiana. The special excursion for May will be to Starved Rock and the Canyons of the Illinois River. Specialists will give the history of the region, explain its topography, and interpret its flora and avifauna. The society is actively supporting a measure now before the legislature looking to the incorporation and preservation of Starved Rock and its environs within the confines of a State Park.

WE learn from *Nature* that the Royal Physical Society of Edinburgh has opened its doors to women members. At the March meeting of the society, Mrs. Elizabeth Gray, Edinburgh; Miss Marion I. Newbigin, D.Sc., Edinburgh; Mrs. Ogilvie Gordon, D.Sc., Ph.D., Aberdeen, and Miss Muriel Robertson, London, were elected ordinary fellows.

THE U. S. Geological Survey has just opened at Denver a permanent branch office to facilitate the transaction of its western work, thus providing a base of supplies for the large corps of engineers who are kept in

the field many months each year, making geologic studies of mineral deposits, conducting detailed topographic surveys for the base maps of the geologic atlas of the United States, mapping the great national forests, investigating surface and underground waters, and collecting statistics of mineral production. The establishment of such a branch office is not only intended to serve the convenience of the survey corps, but it is designed also to meet the great need of the western public for a source of information less remote than Washington. A supply of copies of the publications available for free distribution will be kept on hand, as well as a complete file of the topographic maps, geologic folios, and other publications of the survey subject to sale. All of these publications will be open to inspection by persons desiring information concerning the subjects treated. Prospective purchasers of maps and folios will be referred to the nearest sales agent, and the free publications will be distributed in Denver to those making application. In short, the Denver office is intended to serve the public in all matters that lie legitimately within the province of the United States Geological Survey. The office is located in the Commonwealth Building and was opened on the first of April. R. C. Miles, special disbursing agent, is at present in charge, and will answer all inquiries, distribute documents, and maintain a visitors' register.

UNIVERSITY AND EDUCATIONAL NEWS

AT the recent annual celebration of Founder's day at the University of Virginia, President Alderman announced that an endowment fund of \$1,000,000 had been completed during the past year. Between November and February \$750,000 of this total was secured in sums as follows: Andrew Carnegie, \$500,000; Oliver H. Payne, \$50,000; children of John B. Cary, \$20,000; Christian Woman's Board of Missions, \$30,000; Thomas F. Ryan, \$25,000; Charles H. Senff, \$25,000; Charles Steele, \$30,000; Robert Bacon, \$10,000; H. McK. Twombly, \$10,000; General Education Board, \$50,000. The \$500,000 given by Mr. Carnegie will become the per-